

MUBARAK S ALRABIE

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EDUCATION

TENNESSEE STATE UNIVERSITY, Nashville, TN, USA

Bachelor of Science in Mechanical Engineering, May 2017, *Cum Laude*.

ACCOMPLISHMENTS & ACTIVITIES

- Volunteered, TSU Saudi Arabian Students Association, 2015-2016.
- Saudi Council Of Engineers, Associate Member, 2016-present.
- Sigma Xi International Scientific Research Society, Associate Member, 2017-present.
- The American Society Of Mechanical Engineers (ASME), Associate Member, 2017-present.
- Tennessee State University, Mathematics and Physics department, Calculus II, Tutor, Fall semester 2015.

SKILLS

Languages

- Full Professional Proficiency (ILR Level 4) in **English**
- Native Proficiency (ILR Level 5) in **Arabic**

Computer Skills and Courses Completed

| | | |
|------------------------------|------------------------|-----------------------|
| Microsoft Office (2011-2016) | Heat Transfer | Material Science |
| Chemkin | Engineering Design | Numerical Analysis |
| (SolidWorks; FEA & CFD) | Mechanics of Materials | Computer Aided Design |
| MATLAB | Statics & Dynamics | |
| Thermodynamics | Fluid Mechanics | |

RESEARCH PUBLICATIONS / WORK EXPERINCE

- **M. S. Alrabie**, F. N. Altamimi, M. H. Altarrgemy, F. Hadi, M. K. Akbar, M. J. Traum, "Method to Design a Hydro Tesla Turbine for Sensitivity to Varying Laminar Reynolds Number Modulated by Changing Working Fluid Viscosity," *Paper# PowerEnergy2017-3442, Proceedings of the 2017 ASME Power & Energy Conference, Charlotte, North Carolina, June 25-30, 2017*. (Published).
- Design of An Experimental Macro-Scale Hydro Tesla Turbine To Replicate Performance Of A Mems-Scale Turbine Running Products Of Combustion, **39th Annual University-Wide Research Symposium, Tennessee State University, Nashville, TN, April 18-21, 2017**. (Presented).
- Mechanical Engineer/ Assembly Engineer, *F & P America Manufacturing Inc.* 2101 Corporate dr, Troy, OH 4537, August 2017-October 2017.
- Quality/Design Engineer, Industrial Fiberglass Specialties, Inc. 521 Kiser Street, Dayton, OH 45404, USA, *January 2018-July 2018*.